

# DEEPANSH NAGARIA

B.Tech. Computer Science and Engineering  
UG(III Year I Semester)  
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Registration No: B.Tech./CSE/17114024/2020

Indian Institute of  
Technology  
Roorkee



## Area of Interest

Back-end Development, Data Structures, Deep Learning, Machine Learning, Competitive programming

## Education

Year	Degree/Examination	Institution/Board	CGPA/Percentage
2018	B.Tech. 2nd Year	Indian Institute of Technology, Roorkee	8.798
2017	Twelfth	Mahatma Hansraj Modern Public School, Jhansi (CBSE)	88.6 %
2015	Tenth	Rani Laxmi Bai Public School, Jhansi (ICSE)	94.66 %

## Internships

**Software Developer Intern** | Adams Adnovation Technologies Private Limited 13th May 2019- 24th July 2019

- Worked as a Software Developer Intern at Adams Adnovation Technologies Private Limited.
- I worked on an automation software for running high traffic CPA marketing campaigns.
- My major role was on the backend side, used Django (Python) for development and AWS for deployment during the internship period.
- I worked on database design, algorithms for retrieving custom data, setting up background tasks, scalability of the product, security and several other challenges.
- By the end of the internship period, the product had the basic features requested and was used by the team for the marketing campaigns' optimization.

**Summer Internship** | Indian Institute of Technology Roorkee 1st May 2019 - 15th June 2019

- Implemented Deep Learning and machine learning models on Social Media(Twitter) data to get traffic jam related information under the guidance of Dr. Durga Toshniwal, Professor, CSE dept. IIT Roorkee.
- Worked in a team of three and implemented several Machine learning as well as deep learning algorithms.

## Projects

**Client server chat app** | Indian Institute of Technology, Roorkee Jan 2019 - April 2019

- Chat Application using socket.io that enables clients to chat with many other in the same chat group and also privately to a particular client.
- Implemented a Node.js based chat application that will allow users with an internet connection to engage in private and public conversations.

**Music Genre Classifier** | Indian Institute of Technology, Roorkee 2019

- Worked on Music Genre Classifier, implementing a Deep Learning model which was displayed in Srishti, 2019, Annual Technical Exhibition of IIT Roorkee.

**Summer Research Project** | Indian Institute of Technology, Roorkee 1st May 2018 - 11th June 2018

- Worked on "Optimization Techniques using BDDs for Si-Photonic Circuits" under Dr. Sudip Roy, Ass. professor, the Department of Computer Science, IIT Roorkee. We implemented the current research papers and were able to successfully replicate the results.

**The Serene Symphony** | Indian Institute of Technology Roorkee 2018

- Made a paper virtual piano using basic Computer Vision( image processing using Open CV library in python). The idea was to create a piano with no infrastructure. We successfully made a working model which was displayed in Srishti, 2018, Annual Technical Exhibition of IIT Roorkee.

**Maymay : Social media entertainment app** | Indian Institute of Technology, Roorkee 26th Mar 2019 - 16th Apr 2019

- Built an Android app, basically, an entertainment social media platform which is content-specific(seeing the current trends) and provides an exclusive platform to create and "consume" memes with a simple user-friendly interface.

**Introducing new scheduling policy in Linux** | Indian Institute of Technology, Roorkee 29th Jan 2019 - 6th Feb 2019

- Implemented a new scheduling policy in ubuntu 8.04, which scheduled background processes.
- Designed to support processes that only need to run when the system is idle.
- We took already existing scheduling policy as a baseline and created a new policy with that outline.

**JEE Exam Registration System** | Indian Institute of Technology, Roorkee 3rd Oct 2018 - 17th Oct 2018

- Designed the working of the JEE exam registration system using different concepts of OOAD.

**Design and implementation of embedded system using Raspberry Pi kit** | Indian Institute of Technology Roorkee 24th Feb 2019 - 10th Mar 2019

- We programmed Raspberry Pi with Ultrasonic sensor, L293D IC, and motors to make a robot which detects obstacles and accordingly changes direction avoiding it.

**Design and implementation of embedded system using Arduino kit** | Indian Institute of Technology, Roorkee 24th Feb 2019 - 10th Mar 2019

- We programmed an Arduino with PIR sensor, LED and Buzzer such that whenever a movement is detected by the PIR module, the LED will blink and the buzzer will beep.
- Wrote a program, to configure the hardware, in Arduino IDE and uploaded it to Arduino UNO microprocessor.

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## Awards / Scholarships / Academic Achievements

- James Thomson Scholarship, IIT Roorkee 2017-Present
- All India Rank 268, Joint Entrance Exam Advanced, 2017 among 150,000 candidates.
- All India Rank 1199, Joint Entrance Exam Advanced, 2017 among 1.5 million candidates.
- Kishore Vaigyanik Protsahan Yojana Exam (KVPY), 2016-17 fellowship winner with All India Rank 986.
- Secured rank in Statewise top 1% in Chemistry Olympiad (National Standard Examination in Chemistry), 2016-17.
- Qualified Indian National Astronomy Olympiad clearing NSEA( National Standard Examination in Astronomy), 2016

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## Skills

Computer languages	Django, Java, Python, Nodejs, JavaScript, jQuery, C++, MEAN stack development
Software Packages	Pycharm, sublime text, atom, vim, pip, rest-framework, visual studio, socket.io, nodemon, npm, Operating System (Windows,Ubuntu), pandas, scikit-learn, numpy
Languages Known	English (SRW) , Hindi (SRW)

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## Positions of Responsibility & Extra Curriculars

### ACM Backend Head

April 2019 - Present

- Active Member and an enthusiastic Web Developer at the Association for Computing Machinery, IIT Roorkee.
- The main objectives include hackathons, guest lectures, workshops, coding contests, etc.
- Held series of lectures, events, and discussions on core topics.

### Core member of Artificial Intelligence and Electronics Society (ARIES)

May 2018- May 2019

- Organizing and delivering workshops and lectures in the campus on electronics and Artificial Engineering, also mentoring a group of 4 first-year students in their projects under the group.

### Tech fest IIT Bombay

Oct 2018 - Dec 2018

- Worked in a team of 3 (under college group ARIES), making a mini Quad Copter targeting the problem statement of Tech Fest IIT Bombay which was held in December 2018.
- Our team represented IIT Roorkee in the competition.

### Sports, Intra Bhawan (Hostel) Tournament

Dec 2018 - Dec 2018

- Won Intra Bhawan table tennis competition in Rajendra Bhawan Hostel, IIT Roorkee.

### National Service Scheme (NSS) IIT Roorkee

2017 - 2018

- Worked with NSS IIT Roorkee under Event Management And Promotions (EMP) cell.
- I actively participated in two BDCs (Blood Donation Camps) held at IIT Roorkee.

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## References

### Dr. Balasubramanian Raman

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### Dr. Sudip Roy

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